

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Liew, et. al.
 Serial No.: Not Yet Assigned
 Filed: August 26, 2003
 Entitled: Beta-2 Microglobulin (B2M) and B2M Related
 Gene Products for the Regulation of Osteoarthritis
 Pathogenesis and Chondrocyte Proliferation

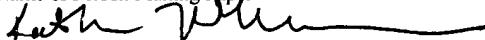
03916 U.S. PTO
 10/649959
 08/26/03


CERTIFICATE OF MAILING UNDER 37 CFR 1.10

I hereby certify that the paper (and any paper or fee referred to as being enclosed) is being deposited with the United States Postal Service using Express Mail to Addressee Service, under 37 C.F.R. Section 1.10, Express Mail Label No. EL 928101145 US on this date, August 26, 2003, postage prepaid, in an envelope addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Kathleen M. Williams

Name of Person Mailing Paper



Signature of Person Mailing Paper

Mail Stop Patent Application
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

TRANSMITTAL LETTER

Enclosed for filing in the above-identified patent application, please find the following documents:

1. New Patent Application Transmittal;
2. Patent Application, (67 pages);
3. Six (6) sheets of informal drawings of Figs 1a - 5;
4. Application Data Sheet;
5. Paper Copy of Sequence Listing;
6. Sequence Listing in computer readable format;
7. Statement Under 37 C.F.R. §1.821(f) and (g);
8. Check in the amount of \$711.00 for the requisite filing fee; and
9. Return Post Card.

Pursuant to 37 C.F.R. § 1.27, Applicant claims small entity status.

The Commissioner for Patents is hereby authorized to charge any additional fees or credit any overpayment in the total fees to Deposit Account No. 16-0085, Reference No. 4231/2032. A duplicate of this transmittal letter is enclosed for this purpose.

Respectfully submitted,

Date: August 26, 2003


 Name: Kathleen M. Williams
 Registration No.: 34,380
 Customer No.: 29933
 Palmer & Dodge LLP
 111 Huntington Avenue
 Boston, MA 02199-7613
 Tel: 617-239-0100

NEW UNITED STATES UTILITY PATENT APPLICATION TRANSMITTAL

Atty. Docket No.: 4231/2032

CERTIFICATE OF MAILING UNDER 37 CFR 1.10

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Kathleen M. Williams

Name of Person Mailing Paper



Signature of Person Mailing Paper

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Enclosed herewith is a new patent application of:

First Named Inventor (or application identifier): Liew, et. al.

Title of Invention: Beta-2 Microglobulin (B2M) and B2M Related Gene Products for the
Regulation of Osteoarthritis Pathogenesis and Chondrocyte Proliferation

Type: New
 Continuation of: _____
 Continuation-in-Part of: _____
 Divisional of: _____

which is hereby incorporated by reference in its entirety into the application filed herewith;

and includes the following papers:

1. Specification 67 pages (including specification, claims, abstract)/ 19 claims (11 independent)
2. Declaration/Power of Attorney is:
 Executed Unexecuted Executed copy from Parent Application
 NOT included, but deferred under 37 C.F.R. § 1.53(f).
3. 6 Distinct sheets of Formal Informal Drawings
4. Application Data Sheet
5. Preliminary Amendment.
6. Information Disclosure Statement
 Form 1449 A copy of each cited prior art reference (as necessary)
7. Assignment with Recordation Cover Sheet.
8. Priority is hereby claimed under 35 U.S.C. § 119 based upon the following application(s):

Country	Application Number	Date of Filing (day, month, year)
US	60/406,494	August 28, 2002

9. Priority is hereby claimed under 35 U.S.C. § 120 based upon the following application(s):

Application Number	Date of Filing (day, month, year)

10. Priority is hereby claimed under 35 U.S.C. § 121 based upon the following application(s):

Application Number	Date of Filing (day, month, year)

NEW UNITED STATES UTILITY PATENT APPLICATION TRANSMITTAL

Atty. Docket No.: 4231/2032

The above applications from which priority is claimed are hereby incorporated in their entirety into the application filed herewith.

11. Priority document(s).
12. Microfiche Computer Program (Appendix).
13. Nucleotide and/or Amino Acid Sequence Submission.
 - Computer Readable Copy.
 - Paper Copy (identical to computer copy).
 - Statement verifying identity of above copies.
14. Request for Non-Publication and Certification under 35 USC 122 (b)(2)(B)(i)
15. Statement of Small Entity Status, Pursuant to 37 C.F.R. §1.27.
16. Calculation of Fees:

FEES FOR	TOTAL CLAIMS	EXCESS CLAIMS	FEE	AMOUNT DUE
Basic Filing Fee (37 C.F.R. § 1.16(a))				\$750.00
Total Claims in Excess of 20 (37 C.F.R. § 1.16(c))	19	0	\$18.00	0.00
Independent Claims in Excess of 3 (37 C.F.R. § 1.16(b))	11	8	\$84.00	672.00
Multiple Dependent Claims (37 C.F.R. § 1.16(d))	NO		\$280.00	0.00
Subtotal - Filing Fee Due				\$1,422.00
Reduction by 50%, if Small Entity (37 C.F.R. §§ 1.9, 1.27, 1.28)			MULTIPLY BY 0.50	\$711.00
TOTAL FILING FEE DUE				\$711.00
Assignment Recordation Fee (if applicable) (37 C.F.R. § 1.21(h))	0		\$40.00	
GRAND TOTAL DUE				\$711.00

17. PAYMENT is:
 - included in the amount of by our enclosed check. The Commissioner is hereby authorized to charge any deficiencies in the fees to Deposit Account 16-0085, Ref. 4231/2032.
 - not included, but deferred under 37 C.F.R. § 1.53(f).

18. All correspondence for the attached application should be directed to:

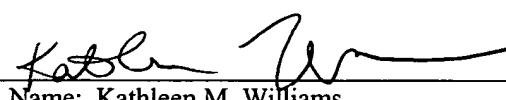
Kathleen M. Williams
Customer Number 29933
111 Huntington Avenue
Boston, MA 02199-7613

19. Other: _____

Respectfully submitted,

Date: August 26, 2003

By:



Name: Kathleen M. Williams
Registration No.: 34,380